

State of Illinois
Department of Transportation
Division of Highways
Springfield

SPECIFICATIONS
FOR
TARPAULINS

Serial Number: M124-81

I. DESCRIPTION

This material will be used to cover equipment, tools, and supplies in truck beds or other locations.

II. GENERAL

All tarpaulin material furnished will be fire, water, weather, and mildew resistant. The fire resistance shall meet or exceed the California State Fire Marshall Code, Paragraph 1273-3. A copy of the test results shall be furnished. Each tarpaulin shall have No. 4 or No. 5 spur grommets. The grommets shall be rolled rim, brass, or zinc coated, placed in each corner and evenly spaced approximately 3 - 4 feet apart along each side and the ends, depending on the size of the tarpaulin. Each tarpaulin shall be identified by stamping or stenciling the words, "Illinois Department of Transportation", with not less than 2-inch high letters. Tarpaulin sizes as shown on the proposal shall be the minimum size acceptable; oversizing shall not exceed 4%.

III. HEMMING

The hemming and stitching shall be as follows: All hems shall be triple thickness (including the fold) of material and 1-1/2 - 2 inches wide. The stitching shall consist of a lock stitch, 5 - 7 stitches to the inch, using Size 12 polyester thread.

IV. TIE DOWNS

The tie down ropes may be either 3/8-inch manila or 5/16-inch polypropylene monofilament. The rope shall be 3-strand twisted type in 10-foot lengths secured to the corner grommets with an eye splice having a 2-3/4-inch eye and an eye splice with not less than 3 tucks. The splice shall be individual strand tucks to form a smooth splice. Manila rope shall have the free ends of the tie rope secured by whipping with 2-strand, 5-ply waxed cotton twine with not less than 7 turns or they may be machine-stitched using a zigzag stitch. The polypropylene rope shall have the free ends heat-sealed (rather than whipped). The heat seal shall be no less than 1/4 inch nor more than 3/4 inch long. The whipping or seal shall prevent the unwrapping of the 3-strand twist rope.

V. MATERIAL

A. Canvas.

Tarpaulin from this material shall be made of No. 10 (standard weight per square yard minimum 12.75 ounces, maximum 14.73 ounces), hard textured, olive drab duck, treated, and shall meet the requirements of AASHTO M 166.

B. Synthetic.

This material shall be 10 x 10 - 1000 denier woven scrim polyester. The color shall be red or yellow. The base fabric shall be PVC coated or laminated and shall be 13 ounces \pm 1/2 ounce, finished. This material shall meet Federal Standard 191, Sub-article 5134, tear minimum 100 x 100 pounds, and Substandard 5100, grad tensile of 240 x 220 pounds. The cold crack low shall be -30°F minimum. The heat resistance shall be a minimum of 180°F sustained.

C. Neoprene

This material shall be 16 ounces \pm 1/2 ounce, finished. The color shall be black/black or black/aluminum, and shall be grease resistant. This material shall meet a grab tensile strength of 450 x 400 pounds, a minimum tear of 70 x 60 pounds, and the cold crack low shall be -40°F on a 1/8-inch mandrell.

VI. INSPECTION AND TESTS

All vendors are required to furnish a representative sample of the product they propose to furnish by the date of the bid opening. The sample must be clearly tagged for the Illinois Department of Transportation with vendor's name, requisition number, and date of bid opening. This sample shall be sent to the State of Illinois Purchasing Agent. The sample (approximately 12" x 12") shall include stitching, grommet, rope, eye splice, and whipping or seal method. The successful bidder shall contact the Engineer of Materials and Physical Research, 126 East Ash Street, Springfield, Illinois 62706, before starting manufacture or making shipment. The Department reserves the right to make inspections and tests either at the origin of shipment or at the destination.

VII. PACKAGING

All finished tarpaulins are to be bulk packaged for shipment suitable for transport and handling by commercial carrier.

VIII. LABELING

In addition to any and all stenciling and markings required under "General" (II.), a label identifying the manufacturer shall be affixed.

Effective February 1, 1981

M124-81